

# University of Pretoria Yearbook 2016

## BSc Medical Sciences (03134020)

**Duration of study** 3 years

**Total credits** 436

### Admission requirements

- In order to register NSC/IEB/Cambridge candidates must comply with the minimum requirements for degree studies as well as the minimum requirements for the relevant study programme.
- Life Orientation is excluded in the calculation of the Admission Point Score (APS).
- Grade 11 results are used for the provisional admission of prospective students. Final admission is based on the Grade 12 results.

Minimum requirements for 2016												
Achievement level												
Afrikaans or English				Mathematics				Physical Sciences				APS
NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
5	3	C	C	5	3	C	C	5	3	C	C	30

Candidates who do not comply with the minimum admission requirements above because they obtained a NSC/IEB achievement level of 4 in one of the prescribed prerequisite subjects are required to write the NBT and may be considered for admission to the BSc or the BSc (Four-year Programme) based on the results of the NBT.

### Other programme-specific information

A student must pass all the minimum prescribed and elective module credits as set out at the end of each year within a programme as well as the total required credits to comply with the particular degree programme. Please refer to the curricula of the respective programmes. At least 144 credits must be obtained at 300-/400-level, or otherwise as indicated by curriculum. The minimum module credits needed to comply with degree requirements is set out at the end of each study programme. Subject to the programmes as indicated a maximum of 150 credits will be recognised at 100-level. A student may, in consultation with the Head of Department and subject to the permission by the Dean, select or replace prescribed module credits not indicated in BSc three-year study programmes to the equivalent of a maximum of 36 module credits.

It is important that the total number of prescribed module credits is completed during the course of the study programme. The Dean may, on the recommendation of the Head of Department, approve deviations in this regard. Subject to the programmes as indicated in the respective curricula, a student may not register for more than 75 module credits per semester at first-year level subject to permission by the Dean. A student may be

permitted to register for up to 80 module credits in a the first semester during the first year provided that he or she obtained a final mark of no less than 70% for grade 12 Mathematics and achieved an APS of 34 or more in the NSC.

Students who are already in possession of a bachelor's degree, will not receive credit for modules of which the content overlap with modules from the degree that was already conferred. Credits will not be considered for more than half the credits passed previously for an uncompleted degree. No credits at the final-year or 300- and 400-level will be granted.

The Dean may, on the recommendation of the programme manager, approve deviations with regard to the composition of the study programme.

Please note: Where elective modules are not specified, these may be chosen from any modules appearing in the list of modules.

It remains the student's responsibility to ascertain, prior to registration, whether they comply with the prerequisites of the modules they want to register for.

The prerequisites are listed in the Alphabetical list of modules.

## Promotion to next study year

A student will be promoted to the following year of study if he or she passed 100 credits of the prescribed credits for a year of study, unless the Dean on the recommendation of the head of department decides otherwise. A student who does not comply with the requirements for promotion to the following year of study, retains the credit for the modules already passed and may be admitted by the Dean, on recommendation of the head of department, to modules of the following year of study to a maximum of 48 credits, provided that it will fit in with both the lecture and examination timetable.

### **General promotion requirements in the faculty**

All students whose academic progress is not acceptable can be suspended from further studies.

- A student who is excluded from further studies in terms of the stipulations of the abovementioned regulations, will be notified in writing by the Dean or Admissions Committee at the end of the relevant semester.
- A student who has been excluded from further studies may apply in writing to the Admissions Committee of the Faculty of Natural and Agricultural Sciences for re-admission.
- Should the student be re-admitted by the Admissions Committee, strict conditions will be set which the student must comply with in order to proceed with his/her studies.
- Should the student not be re-admitted to further studies by the Admissions Committee, he/she will be informed in writing.
- Students who are not re-admitted by the Admissions Committee have the right to appeal to the Senior Appeals Committee.
- Any decision taken by the Senior Appeals Committee is final.

## Pass with distinction

A student obtains his or her degree with distinction if all prescribed modules at 300-level (or higher) are passed in one academic year with a weighted average of at least 75%, and obtain at least a subminimum of 65% in each of the relevant modules.



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## Curriculum: Year 1

**Minimum credits: 142**

### Fundamental modules

Academic information management 111 (AIM 111) - Credits: 4.00

Academic information management 121 (AIM 121) - Credits: 4.00

Language and study skills 110 (LST 110) - Credits: 6.00

Academic orientation 102 (UPO 102) - Credits: 0.00

Academic information management 102 (AIM 102) - Credits: 6.00

### Core modules

Introduction: Human anatomy and embryology 121 (ANA 121) - Credits: 4.00

Human osteology 122 (ANA 122) - Credits: 4.00

Basic human histology 126 (ANA 126) - Credits: 4.00

Biometry 120 (BME 120) - Credits: 16.00

General chemistry 117 (CMY 117) - Credits: 16.00

General chemistry 127 (CMY 127) - Credits: 16.00

Science and world views 155 (FIL 155) - Credits: 6.00

Introductory genetics 161 (GTS 161) - Credits: 8.00

Introduction to microbiology 161 (MBY 161) - Credits: 8.00

Molecular and cell biology 111 (MLB 111) - Credits: 16.00

Physics for biology students 131 (PHY 131) - Credits: 16.00

Mathematics 134 (WTW 134) - Credits: 16.00



## Curriculum: Year 2

**Minimum credits: 180**

### Core modules

Human cell and developmental biology 214 (ANA 214) - Credits: 12.00

Paleoanthropology 215 (ANA 215) - Credits: 12.00

Human histology 226 (ANA 226) - Credits: 12.00

Introduction to proteins and enzymes 251 (BCM 251) - Credits: 12.00

Carbohydrate metabolism 252 (BCM 252) - Credits: 12.00

Lipid and nitrogen metabolism 261 (BCM 261) - Credits: 12.00

Biochemical principles of nutrition and toxicology 262 (BCM 262) - Credits: 12.00

Human anatomy Part 1 247 (ANA 247) - Credits: 12.00

### Elective modules

Introductory and neurophysiology 211 (FLG 211) - Credits: 12.00

Circulatory physiology 212 (FLG 212) - Credits: 12.00

Lung and renal physiology, acid-base balance and temperature 221 (FLG 221) - Credits: 12.00

Digestion, endocrinology and reproductive systems 222 (FLG 222) - Credits: 12.00

Molecular genetics 251 (GTS 251) - Credits: 12.00

Genetic diversity and evolution 261 (GTS 261) - Credits: 12.00

Bacteriology 251 (MBY 251) - Credits: 12.00

Mycology 261 (MBY 261) - Credits: 12.00

Food microbiology 262 (MBY 262) - Credits: 12.00

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## Curriculum: Final year

**Minimum credits: 144**

### Core modules

Forensic anthropology 315 (ANA 315) - Credits: 18.00  
Cell and tissue techniques 316 (ANA 316) - Credits: 18.00  
Human cell and developmental biology 324 (ANA 324) - Credits: 18.00  
Human anatomy Part 2 347 (ANA 347) - Credits: 18.00

### Elective modules

Human cell and developmental biology 214 (ANA 214) - Credits: 12.00  
Paleoanthropology 215 (ANA 215) - Credits: 12.00  
Human histology 226 (ANA 226) - Credits: 12.00  
Pharmacology 381 (FAR 381) - Credits: 18.00  
Pharmacology 382 (FAR 382) - Credits: 18.00  
Industrial physiology 322 (FLG 322) - Credits: 18.00  
Higher neurological functions 327 (FLG 327) - Credits: 18.00  
Eukaryotic gene control and development 351 (GTS 351) - Credits: 18.00  
Genome evolution and phylogenetics 354 (GTS 354) - Credits: 18.00  
Population and evolutionary genetics 367 (GTS 367) - Credits: 18.00  
Genetics in human health 368 (GTS 368) - Credits: 18.00  
Plant genetics and crop biotechnology 361 (BTC 361) - Credits: 18.00  
Exercise and nutrition science 331 (FLG 331) - Credits: 18.00  
Applied and pathophysiology 332 (FLG 332) - Credits: 18.00  
Cellular and developmental physiology 330 (FLG 330) - Credits: 18.00  
Human anatomy Part 1 247 (ANA 247) - Credits: 12.00

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The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.